PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 144FA (EAST PATRICK STREET) AND EAST STREET IN FREDERICK COUNTY. THE MODIFICATION WILL UPGRADE THE EXISTING PEDESTRIAN SIGNALS TO COUNTDOWN PEDESTRIAN SIGNALS AND INSTALL NEW ADA RAMPS AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS. MD 144FA IS ASSUMED TO RUN IN THE EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA 5-PHASE, FULL-TRAFFIC ACTUATED MODE, WITH THE EAST STREET APPROACHES RUNNING CONCURRENTLY, AND THE EAST PATRICK STREET APPROACH OPERATING AS A SEPARATE PHASE. A LAG EXCLUSIVE/PERMISSIVE LEFT TURN PHASING WILL BE PROVIDED FOR NORTHBOUND AND SOUTHBOUND EAST STREET. AN ALTERNATE PEDESTRIAN PHASE WITH AUDIBLE PEDESTRIAN SIGNALS SHALL BE INSTALLED ACROSS EAST ST, AND A LEAD ACTUATED AUDIBLE PEDESTRIAN PHASE SHALL BE INSTALLED ACROSS MD 144FA.

III. APS NOTE

TO CROSS MD 144FA

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON WILL ANNOUNCE "WAIT TO CROSS EAST PATRICK AT EAST."
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE,

TO CROSS EAST STREET

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON WILL ANNOUNCE "WAIT TO CROSS EAST AT EAST PATRICK,"
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

DESCRIPTION

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADIMISTRATION

ITEM NO./ QUANTITY CAT CODE

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY		DESCRIPTION								
1001	425	LF	REMOVE EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH								
2002	3	CY	TEST PIT EXCAVATION								
5005	415	LF	12 INCH LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINS								
8001	8	EΑ	AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON								
8003	- 1	EΑ	F & I 2 WIRE CONTROL UNIT								
8004.	8	EΑ	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL								
8005	8	EΑ	PEDESTRIAN ÉDUCATION SIGN								
8007	1	EΑ	REMOVE AND DISPOSE PER ASSIGNMENT								
8012	620	LF	NO.6 AWG STRANDED BARE COPPER GROUND WIRE								
8013	80	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED								
8019	5	EΑ	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE								
8020	875	LF	ELECTRICAL CABLE — 2 CONDUCTOR (NO. 14 AWG)								
8021	990	LF	ELECTRICAL CABLE — 5 CONDUCTOR (NO. 14 AWG)								
NEG	. 6	EΑ	F & I PAINTED BREAKAWAY PEDESTAL POLE (ANY SIZE)								

C. IF THE CABINET IS TO BE REMOVED SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME. THE PROPERTY OF THE CONTRACTOR.

CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. DAVE COYNE DISTRICT ENGINEER PHONE: (301) 624-8101

MR, JOHN CONCANNON ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (301) 624-8140

MR. RAYMOND F. JOHNSON ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 624-8105

MS. ANDREA ABEND DISTRICT UTILITIES ENGINEER PHONE: (301) 624-8115

MR. JOHN HUCHROWSKI. ASSIATANT DISTRICT ENGINEER-CONSTRUCTION PHONE: (301) 624-8200

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS PHONE: (410) 787-7652

MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7631

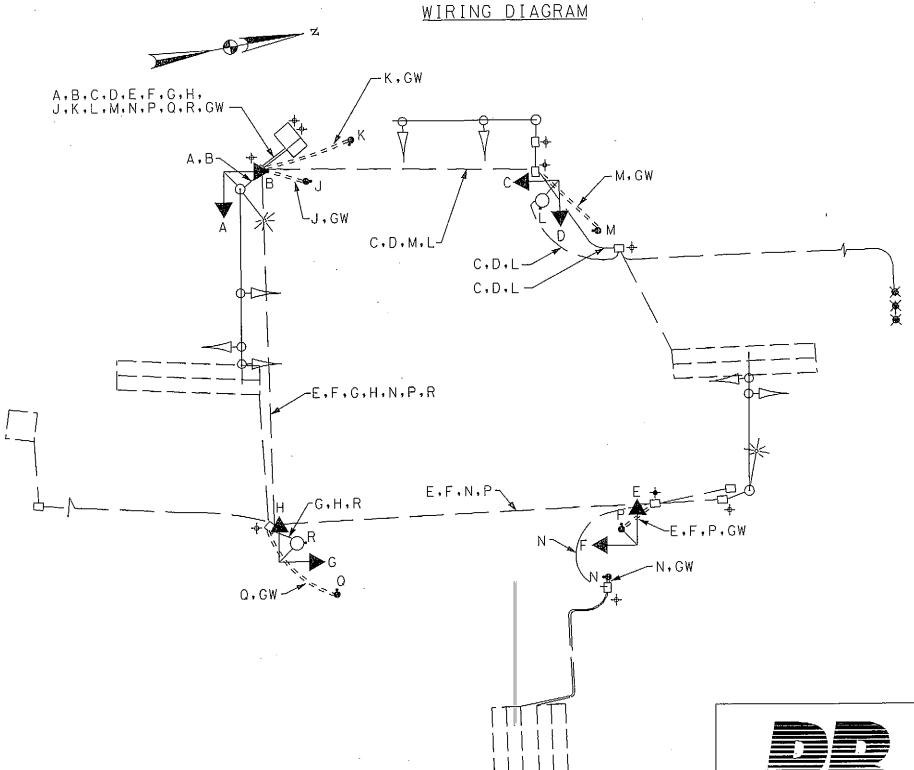
MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650

MR, EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670

MS. DARLENE EIDE SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

PHASE CHART

PHASE 2 + 6 PED	R	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW	Ø©
PHASE 2 + 6	G	G	G ·	G	G	G	R	R	WK	WK	WK	WK	DW	DW	DW	DW] ⊚
PED CLEARANCE	· G	G	G	G	G	G	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW	
2 + 6 CHANGE	Y	Y	Υ	Υ	_ Y	Y	R	R	DW	⊚©							
PHASE I + 5	← G-/R	← G-/R	R	← G-/R	← G-/R	R	R	R	DW	<u></u>							
1 + 5 CHANGE	← -Y-/R	← Y-/R	R .	← Y-/R	← Y-/R	R	R	R	DW	4							
PHASE 4	R	R	R	R	R	R	G	G	DW	<u> </u>							
4 CHANGE	R	R	R	R	R	R	Y	Υ	DW								
PHASE 4 ALT	R	R	R	R	R	R	G	G	DW	DW	DW	DW	WK	wĸ	WK	WK	
PED CLEARANCE	R	R	R	R	R	R	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW	- e e
4 ALT CHANGE	R	R	R	R	R	R	Y	Y	DW								
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	4-4							



11111

WIRING KEY

A,B,C,D,E,F,G,H - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

J.K.L,M,N,P,Q,R - 2-CONDUCTOR ELECTRICAL CABLE

(NO. 14 A.W.G.) GW - GROUND WIRE

← PROPOSED GROUND ROD

+ - EXISTING GROUND ROD

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION MD 144FA (EAST PATRICK STREET) AND EAST STREET SIGNAL MODIFICATION FREDERICK, MARYLAND

GENERAL INFORMATION PLAN

SCALE 1" = 20' DATE MAR 16, 2010 CONTRACT NO. AX7065168



100 South Charles Street Tower I, 10th Floor Baltimore, MD 21201-2727 TS NO. 3841A GI DRAWING SG-02 OF 02

DESIGNED BY K. PERMISOHN DRAWN BY M. WAGNER CHECKED BY K. PERMISOHN CTW COUNTY FREDERICK LOGMILE 10A14404.71 TIMS NO. K210 TOD NO. SHEET NO. 02 OF 02

PLOTTED: Tuesday, March 16, 2010 at 1:50:50 PM FILE: pSG-N001_TS3841A.dgn